

## LG Chemical SEETEC R3450 Polypropylene Random Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

### Material Notes:

Features: Seetec R3450 is a polypropylene-ethylene random copolymer designed for the production of cast films. It has a good clarity due to the optimum content of ethylene and offers optimum balance between optical properties and physical strength. It is suitable for the skin layer of co-extruded cast film in food packaging or semi retort pouch being required high slip and medium heat seal temperature. SEETEC R3450 meets the FDA requirement in the code of Federal Regulations in 21 CFR 177.1520 for food contact. Applications: CPP Film (High Slip) CAS No. 9010-79-1 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-SEETEC-R3450-Polypropylene-Random-Copolymer.php](http://www.lookpolymers.com/polymer_LG-Chemical-SEETEC-R3450-Polypropylene-Random-Copolymer.php)

| Physical Properties | Metric                                | English                               | Comments   |
|---------------------|---------------------------------------|---------------------------------------|------------|
| Specific Gravity    | 0.900 g/cc                            | 0.900 g/cc                            | ASTM D1505 |
| Melt Flow           | 8.0 g/10 min                          | 8.0 g/10 min                          | ASTM D1238 |
|                     | @Load 2.16 kg,<br>Temperature 230 Â°C | @Load 4.76 lb,<br>Temperature 446 Â°F |            |

| Mechanical Properties              | Metric                   | English               | Comments            |
|------------------------------------|--------------------------|-----------------------|---------------------|
| Hardness, Rockwell R               | 82                       | 82                    | ASTM D785           |
| Tensile Strength, Yield            | 25.5 MPa                 | 3700 psi              | 50mm/min; ASTM D638 |
| Film Elongation at Break, MD       | >= 500 %                 | >= 500 %              | ASTM D882           |
| Film Elongation at Break, TD       | >= 500 %                 | >= 500 %              | ASTM D882           |
| Elongation at Break                | <= 500 %                 | <= 500 %              | 50mm/min; ASTM D638 |
| Flexural Modulus                   | 0.853 GPa                | 124 ksi               | ASTM D760           |
| Izod Impact, Notched               | 0.490 J/cm               | 0.918 ft-lb/in        | ASTM D256           |
|                                    | @Temperature 23.0<br>Â°C | @Temperature 73.4 Â°F |                     |
| Coefficient of Friction, Static    | <= 0.20                  | <= 0.20               | ASTM 1894           |
| Film Tensile Strength at Break, MD | 440 MPa                  | 63800 psi             | ASTM D882           |
| Film Tensile Strength at Break, TD | 340 MPa                  | 49300 psi             | ASTM D882           |

| Thermal Properties          | Metric        | English       | Comments |
|-----------------------------|---------------|---------------|----------|
| Melting Point               | 130 - 170 Â°C | 266 - 338 Â°F |          |
| Crystallization Temperature | 103 Â°C       | 217 Â°F       | DSC      |

| Thermal Properties                             | Metric                   | English                  | Comments   |
|------------------------------------------------|--------------------------|--------------------------|------------|
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 80.0 Â°C                 | 176 Â°F                  | ASTM D648  |
| Vicat Softening Point                          | 134 Â°C<br>@Load 1.00 kg | 273 Â°F<br>@Load 2.20 lb | ASTM D1525 |
| Flash Point                                    | >= 340 Â°C               | >= 644 Â°F               |            |

| Optical Properties | Metric | English | Comments         |
|--------------------|--------|---------|------------------|
| Haze               | 1.5 %  | 1.5 %   | ASTM D1003       |
| Gloss              | 130 %  | 130 %   | 45Â°; ASTM D2457 |

| Descriptive Properties | Value  | Comments          |
|------------------------|--------|-------------------|
| Heat Seal Temperature  | 130Â°C | >1 Kgf, LG Method |

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